

|    | Type | Ref # | Hits | Search Text   |
|----|------|-------|------|---|
| 1  | IS&R | S3    | 208  | (62/630).CCLS.  |
| 2  | IS&R | S4    | 195  | (62/935).CCLS.  |
| 3  | BRS  | S6    | 36   | S5 and pyrolysis  |
| 4  | IS&R | S2    | 93   | (62/622).CCLS.  |
| 5  | BRS  | S7    | 6    | ("4167402"   "5253479"   "5452581"   "5678424"   "5689032"   "5884504").PN.   |
| 6  | BRS  | S5    | 381  | (S2 or S3 or S4) and @pd<="20001207"  |
| 7  | BRS  | S8    | 31   | (S2 or S3 or S4) and @pd<="20001207" and Ethylene and pyrolysis   |
| 8  | BRS  | S9    | 30   | (S2 or S3 or S4) and @pd<="20001207" and Ethylene and pyrolysis and hydrocarbon   |
| 9  | IS&R | S11   | 3    | ((("5253479") or ("5452581") or ("5678424"))).PN.   |
| 10 | BRS  | S10   | 28   | (S2 or S3 or S4) and @pd<="20001207" and Ethylene and pyrolysis and hydrocarbon and fractionat\$4   |
| 11 | IS&R | S1    | 1    | ("6578378").PN.   |
| 12 | IS&R | S12   | 93   | (62/622).CCLS.  |
| 13 | IS&R | S13   | 213  | (62/630).CCLS.  |
| 14 | IS&R | S14   | 195  | (62/935).CCLS.  |
| 15 | IS&R | S16   | 195  | (62/620).CCLS.  |
| 16 | BRS  | S15   | 2    | (S13 or S14 or S12) and @pd>="20060531"   |
| 17 | BRS  | S17   | 11   | S16 and @pd>="20060531"   |
| 18 | BRS  | S19   | 6    | ("4167402"   "5253479"   "5452581"   "5678424"   "5689032"   "5884504").PN.   |
| 19 | IS&R | S18   | 1    | ("6578378").PN.   |
| 20 | IS&R | S21   | 216  | (62/630).CCLS.  |
| 21 | IS&R | S22   | 195  | (62/935).CCLS.  |
| 22 | IS&R | S20   | 93   | (62/622).CCLS.  |
| 23 | IS&R | S24   | 200  | (62/620).CCLS.  |
| 24 | BRS  | S23   | 381  | (S20 or S21 or S22) and @pd<="20001207"   |
| 25 | BRS  | S25   | 456  | (S20 or S21 or S22 or S24) and @pd<="20001207"  |
| 26 | BRS  | S27   | 0    | (S20 or S21 or S22 or S24) and ((process or method) and cooling and liquefying and evaporat\$4 and propylene and ethylene and ethane and hydrogen).clm. |

|           | <b>DBs</b>                | <b>Time Stamp</b> |
|-----------|---------------------------|-------------------|
| <b>1</b>  | US-PGPUB; USPAT           | 2006/02/09 12:48  |
| <b>2</b>  | US-PGPUB; USPAT           | 2006/02/09 12:49  |
| <b>3</b>  | US-PGPUB; USPAT           | 2006/02/09 12:50  |
| <b>4</b>  | US-PGPUB; USPAT           | 2006/02/09 12:51  |
| <b>5</b>  | US-PGPUB; USPAT;<br>USOCR | 2006/02/09 12:52  |
| <b>6</b>  | US-PGPUB; USPAT           | 2006/02/09 12:54  |
| <b>7</b>  | US-PGPUB; USPAT           | 2006/02/09 12:55  |
| <b>8</b>  | US-PGPUB; USPAT           | 2006/02/09 13:04  |
| <b>9</b>  | US-PGPUB; USPAT           | 2006/02/09 13:07  |
| <b>10</b> | US-PGPUB; USPAT           | 2006/02/09 13:17  |
| <b>11</b> | US-PGPUB; USPAT           | 2006/08/09 10:03  |
| <b>12</b> | US-PGPUB; USPAT           | 2006/08/09 10:04  |
| <b>13</b> | US-PGPUB; USPAT           | 2006/08/09 10:04  |
| <b>14</b> | US-PGPUB; USPAT           | 2006/08/09 10:04  |
| <b>15</b> | US-PGPUB; USPAT           | 2006/08/09 10:13  |
| <b>16</b> | US-PGPUB; USPAT           | 2006/08/09 10:18  |
| <b>17</b> | US-PGPUB; USPAT           | 2006/08/09 10:18  |
| <b>18</b> | US-PGPUB; USPAT;<br>USOCR | 2006/11/29 12:52  |
| <b>19</b> | US-PGPUB; USPAT           | 2006/11/29 12:52  |
| <b>20</b> | US-PGPUB; USPAT           | 2006/11/29 12:55  |
| <b>21</b> | US-PGPUB; USPAT           | 2006/11/29 12:55  |
| <b>22</b> | US-PGPUB; USPAT           | 2006/11/29 12:55  |
| <b>23</b> | US-PGPUB; USPAT           | 2006/11/29 13:00  |
| <b>24</b> | US-PGPUB; USPAT           | 2006/11/29 13:00  |
| <b>25</b> | US-PGPUB; USPAT           | 2006/11/29 13:01  |
| <b>26</b> | US-PGPUB; USPAT           | 2006/11/29 13:04  |

|    | Type | Ref # | Hits | Search Text   |
|----|------|-------|------|---|
| 27 | BRS  | S30   | 0    | (S20 or S21 or S22 or S24) and (cool\$4 and liquefying and evaporat\$4 and propylene and ethylene and ethane).clm.  |
| 28 | BRS  | S28   | 0    | (S20 or S21 or S22 or S24) and ((process or method) and cooling and liquefying and evaporat\$4 and propylene and ethylene and ethane).clm.  |
| 29 | BRS  | S29   | 0    | (S20 or S21 or S22 or S24) and (cooling and liquefying and evaporat\$4 and propylene and ethylene and ethane).clm.  |
| 30 | BRS  | S26   | 0    | (S20 or S21 or S22 or S24) and ((process or method) and cooling and liquefying and evaporat\$4 and (heat adj exchang\$3) and propylene and ethylene and ethane and hydrogen).clm. |
| 31 | BRS  | S33   | 61   | (S20 or S21 or S22 or S24) and (ethylene and ethane).clm.   |
| 32 | BRS  | S32   | 0    | (S20 or S21 or S22 or S24) and (propylene and ethylene and ethane).clm.   |
| 33 | BRS  | S34   | 6    | ("4167402"   "5253479"   "5452581"   "5678424"   "5689032"   "5884504").PN.   |
| 34 | BRS  | S35   | 4    | (pyrolysis and hydrocarbon and fractionat\$3 and evaporat\$3).clm.  |
| 35 | BRS  | S36   | 50   | (hydrocarbon and fractionat\$3 and evaporat\$3).clm.  |
| 36 | BRS  | S37   | 20   | (hydrocarbon and fractionat\$3 and evaporat\$3 and distillat\$3).clm.   |
| 37 | BRS  | S39   | 2    | (hydrocarbon and fractionat\$3 and evaporat\$3 and distillat\$3 and (heat adj exchang\$2) and propylene and ethylene and ethane).clm.   |
| 38 | BRS  | S38   | 8    | (hydrocarbon and fractionat\$3 and evaporat\$3 and distillat\$3 and (heat adj exchang\$2)).clm.   |
| 39 | BRS  | S31   | 0    | (S20 or S21 or S22 or S24) and (evaporat\$4 and propylene and ethylene and ethane).clm.   |
| 40 | IS&R | S40   | 93   | (62/622).CCLS.  |

|           | <b>DBs</b>                | <b>Time Stamp</b> |
|-----------|---------------------------|-------------------|
| <b>27</b> | US-PGPUB; USPAT           | 2006/11/29 13:04  |
| <b>28</b> | US-PGPUB; USPAT           | 2006/11/29 13:04  |
| <b>29</b> | US-PGPUB; USPAT           | 2006/11/29 13:04  |
| <b>30</b> | US-PGPUB; USPAT           | 2006/11/29 13:04  |
| <b>31</b> | US-PGPUB; USPAT           | 2006/11/29 13:05  |
| <b>32</b> | US-PGPUB; USPAT           | 2006/11/29 13:05  |
| <b>33</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:34  |
| <b>34</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:38  |
| <b>35</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:39  |
| <b>36</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:49  |
| <b>37</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:52  |
| <b>38</b> | US-PGPUB; USPAT;<br>USOCR | 2007/01/31 11:52  |
| <b>39</b> | US-PGPUB; USPAT           | 2007/01/31 11:56  |
| <b>40</b> | US-PGPUB; USPAT           | 2007/01/31 11:57  |

|    | Type | Ref # | Hits | Search Text                                       |
|----|------|-------|------|---|
| 41 | IS&R | S43   | 207  | (62/620).CCLS.                                    |
| 42 | BRS  | S44   | 8    | (S40 or S41 or S42 or S43) and<br>@pd>="20061204" |
| 43 | IS&R | S42   | 195  | (62/935).CCLS.                                    |
| 44 | IS&R | S41   | 220  | (62/630).CCLS.                                    |

|           | <b>DBs</b>      | <b>Time Stamp</b> |
|-----------|-----------------|-------------------|
| <b>41</b> | US-PGPUB; USPAT | 2007/01/31 11:57  |
| <b>42</b> | US-PGPUB; USPAT | 2007/01/31 11:57  |
| <b>43</b> | US-PGPUB; USPAT | 2007/01/31 11:57  |
| <b>44</b> | US-PGPUB; USPAT | 2007/01/31 11:57  |